

WHAT IS CLAIMED IS:

1. A rolling member connection belt for holding, to be rotatable, a series of rolling members which circulate in a circulation passage provided with a loaded rolling passage composed of a rolling member rolling portion formed on a track member and another rolling member rolling portion formed on a movable member, a non-loaded return passage formed in the movable member and a pair of rolling direction changing members connecting the loaded rolling passage and the non-loaded return passage to thereby constitute the circulation passage,

said rolling member connection belt being made of a metal plate member having a corrugated-shape, in section in a longitudinal direction thereof, formed at least at a portion in the longitudinal direction, said corrugated-shape having peak and valley portions each extending in a direction normal to the longitudinal direction of the metal plate member.

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2. A rolling member connection belt according to claim 1, wherein said metal plate member is provided with a number of rolling member holding holes formed along the longitudinal direction thereof and a plurality of sets of peak-and-valley portions exist in each of the rolling member holding holes.

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3. A rolling member connection belt according to claim 2, wherein said rolling member holding hole is provided, at peripheral portions thereof, with a plurality of claw portions so as to surely hold the rolling member in the
5 hole.

4. A rolling member connection belt according to claim 1, wherein said peak-and-valley portions are formed along an entire longitudinal direction of the connection belt.

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5. A motion guide device comprising:

a track member formed with a rolling member rolling portion;

a movable member formed with another rolling
15 member rolling portion and assembled to the track member to be rotatable relatively thereto;

a number of rolling members which circulate in a circulation passage provided with a loaded rolling passage composed of both the rolling member rolling portions
20 formed on the track member and the movable member, a non-loaded return passage formed in the movable member and a pair of rolling direction changing members connecting the loaded rolling passage and the non-loaded return passage to thereby constitute the circulation
25 passage; and

a rolling member connection belt holding the rolling members to be rotatable in the circulation passage,

said rolling member connection belt being made of a metal plate member having a corrugated-shape, in section in a longitudinal direction thereof, formed at least at a portion in the longitudinal direction, said corrugated-shape
5 having peak and valley portions each extending in a direction normal to the longitudinal direction of the metal plate member.

6. A motion guide device according to claim 5, wherein
10 said metal plate member is provided with a number of rolling member holding holes formed along the longitudinal direction thereof and a plurality of sets of peak-and-valley portions exist in each of the rolling member holding holes.

15 7. A motion guide device according to claim 5, wherein said peak-and-valley portions are formed along an entire longitudinal direction of the connection belt.